

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Marchant et al. Examiner : R. Teller
Application No. : 09/302,195 Group Art : 1654
Filing Date : April 29, 1999
Title : SURFACTANTS THAT MIMIC THE GLYCOCALYX
Confirmation No. : 6586
Docket No. : 26526-5 (old)
26526-13 (new)

RECEIVED

FEB 03 2004

**Office of Patent Publication
Director's Office**

ATTN: JANET HIGGINS
2231 Crystal Drive
Suite 910
Arlington, VA 22202

CERTIFICATE OF EXPRESS MAIL UNDER 37 C.F.R. 1.10

I hereby certify that these papers are being deposited with the United States Postal Service on February 2, 2004, in an envelope as "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10, and addressed to: Attn. Janet Higgins, 2231 Crystal Drive, Suite 910, Arlington, VA 22202.

EL987551026US

Express Mail Label Number

Christina R. Correll

(type or print name of person mailing paper)

Christina R. Correll

Signature of person mailing paper

Items enclosed herewith:

1. Communication;
2. Copy of Figures 1-5;
3. Return Receipt Postcard

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Marchant et al. Examiner : R. Teller
Application No. : 09/302,195 Group Art : 1654
Filing Date : April 29, 1999
Title : SURFACTANTS THAT MIMIC THE GLYCOCALYX
Confirmation No. : 6586
Docket No. : 26526-5 (old)
26526-13 (new)

RECEIVED

FEB 03 2004

Office of Patent Publication
Director's Office

ATTN: JANET HIGGINS
2231 Crystal Drive
Suite 910
Arlington, VA 22202

COMMUNICATION

In accordance with the telephone conversation between Janet Higgins of the US Patent Office and Christina R. Correll of Benesch, Friedlander, Coplan, & Aronoff, LLP on Friday, January 30, 2004, Applicant submits a copy of Figures 1-5 for the above-captioned patent application. The Figures are being sent to replace Figures 1-5 that were unintentionally defaced by the Patent Office. Applicant verifies that these Figures 1-5 are true copies of the originally filed Figures.

February 2, 2004

Respectfully submitted,



W. Scott Harders

Reg. No. 42,629

BENESCH, FRIEDLANDER,
COPLAN & ARONOFF LLP

2300 BP Tower

200 Public Square

Cleveland, OH 44114-2378

(216) 363-4504

**Scheme 1. Synthetic Route to Poly(vinylamine) and
Derivatization of Poly(vinylamine) with (1) Dextran
Lactone and (2) *N*-(Hexanoyloxy)succinimide**

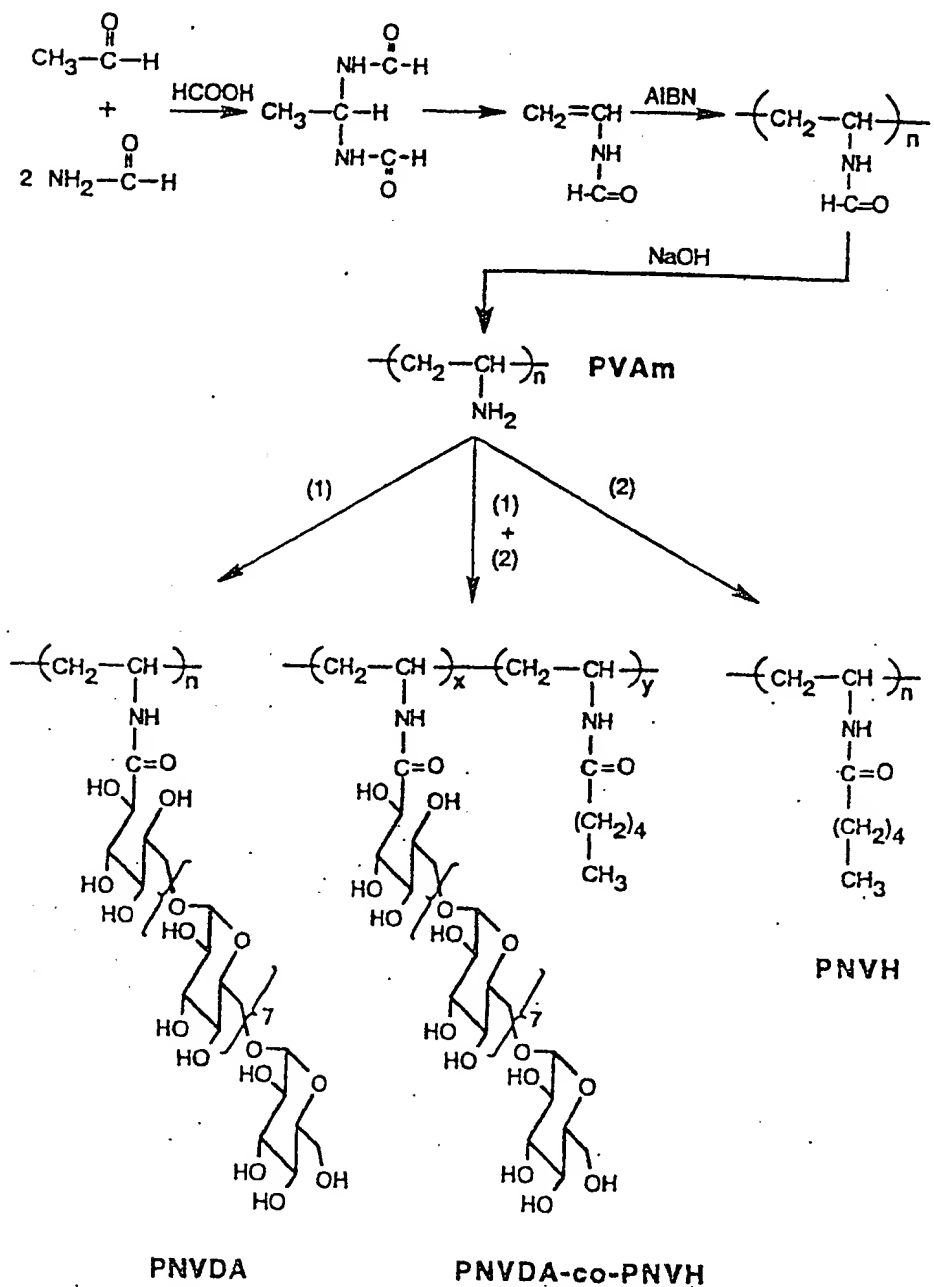


Fig. 1

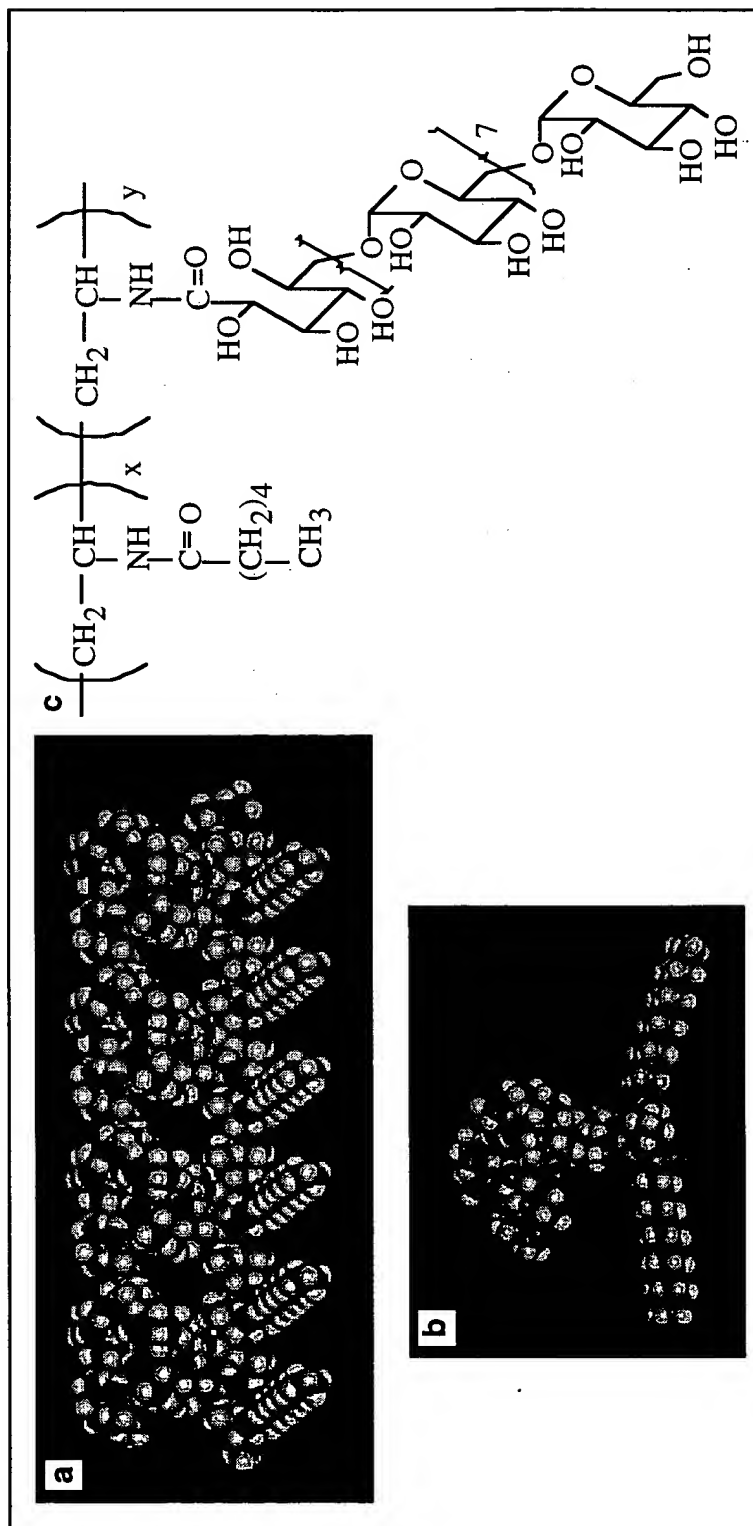


Figure 2

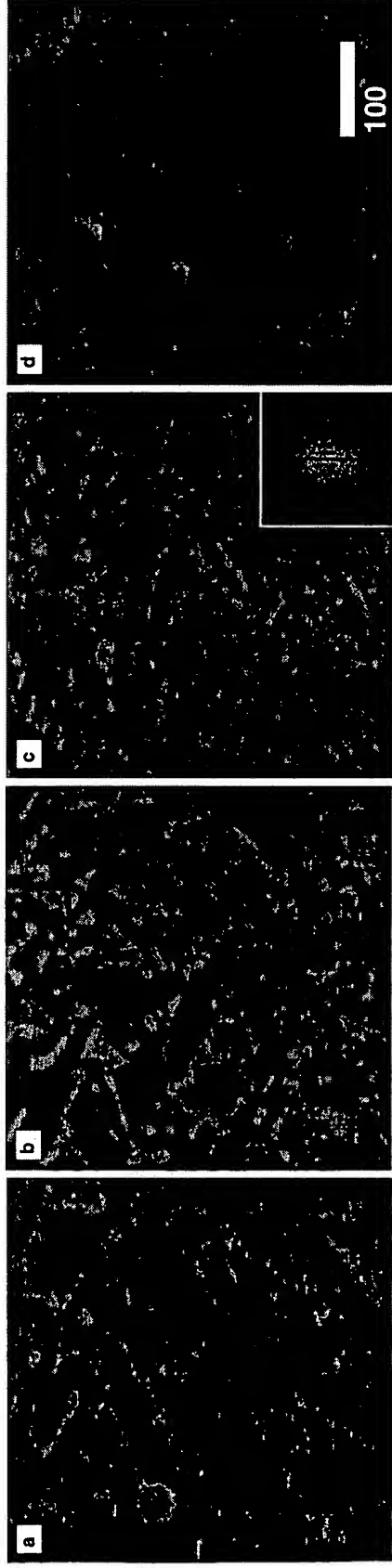


Figure 3

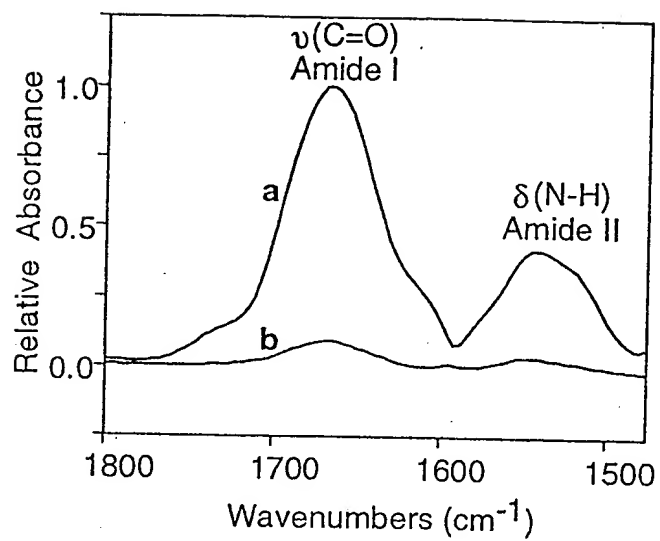
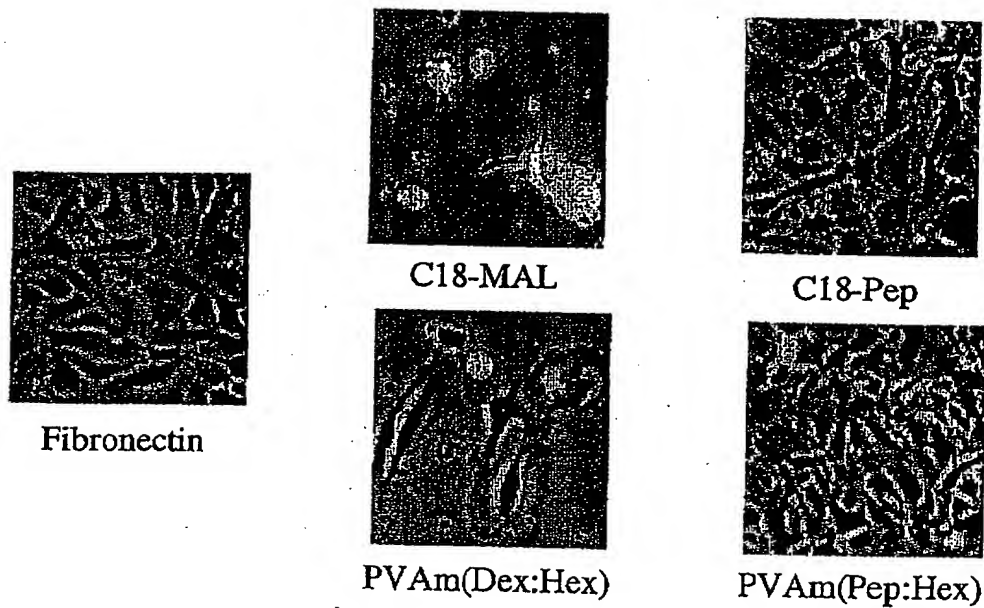


Fig. 4



Phase contrast images of HUVECs on surfactant coated surfaces after 72 hours. The cells grew only on the peptide surfactants, not the saccharide surfactants. Fibronectin is a positive control surface.

Fig. 5